


EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	17	703/27.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 13:57
L2	234	707/200.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:00
L3	13	L2 and @ad<"20011201"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:01
L4	5183	metadata and @ad<"20011201"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:05
L5	3963	L4 and object\$1	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:06
L6	3158	L5 and database\$1	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:07
L7	2786	L6 and network	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:08
L8	230	L7 and @ad<"19980101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:09
L9	482	L7 and @ad<"19990101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:09
L10	941	L7 and @ad<"20000101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:09
L11	1845	L7 and @ad>="20000101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/07/10 14:10

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[\[PDF\] Semantic Heterogeneity in Global Information Systems: The Role of Metadata, Context and Ontologies](#) - all 4 versions »

V Kashyap, A Sheth - Cooperative Information Systems: Current Trends and ..., 1996 - lsdls.cs.uga.edu
 ... of **metadata** is the schema of the **database**. ... We use **metadata** to store derived properties of media ... of or relationships between individual **objects** of heterogeneous ...

Cited by 186 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[\[BOOK\] The object database standard: ODMG 2.0](#) - all 2 versions »

RGG Cattell, D Wade, DK Barry, D Bartels, M Berler ... - 1997 - Morgan Kaufmann Publishers Inc. San Francisco, CA, USA

Cited by 705 - [Related Articles](#) - [Web Search](#)

[Glossary: Intelligent integration of information](#) - all 13 versions »

G Wiederhold - Journal of Intelligent Information Systems, 1996 - Springer
 ... **metadata** descriptive information about data in a resource, includes domain ... resource accessible **database**, **object** server, simulation, knowledge-base, etc., pro ...

Cited by 260 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[A database perspective on knowledge discovery](#) - all 5 versions »

T Imielinski, H Mannila - Communications of the ACM, 1996 - portal.acm.org
 ... **metadata**. ... querying has two major roles: gen- eration of new KDD **objects** and retrieval ... query "does not care" if its argument is the original **database** or if ...

Cited by 403 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[An Approach to Resolving Semantic Heterogenity in a Federation of Autonomous, Heterogeneous Database ...](#) - all 6 versions »

J Hammer, D McLeod - IJCIS, 1993 - dbpubs.stanford.edu
 ... of so-called meta-functions, which return **metadata** information about ... place in the local **meta-data** framework (type ... Conference on **Object Oriented Database** Systems ...

Cited by 125 - [Related Articles](#) - [Cached](#) - [Web Search](#)

[\[BOOK\] The Object Database Standard, ODMG-93: Release 1.2](#)

RGG Cattell, T Atwood - 1996 - Morgan Kaufmann Pub

Cited by 209 - [Related Articles](#) - [Web Search](#)

[\[PDF\] Transforming Heterogeneous Data with Database Middleware: Beyond Integration](#) - all 9 versions »

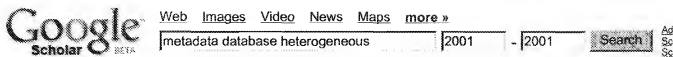
LM Haas, RJ Miller, B Niswonger, MT Roth, PM ... - IEEE Data Engineering Bulletin, 1999 - dbs.informatik.uni-halle.de

... **Metadata** transformations that use higher order query language operators [Ros92] are needed for the former, dynamic ... The **Object Database** Standard - ODMG-93. ...

Cited by 150 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Using XML for the exchange of updating information between geographical information systems](#) - all 2 versions »

T Badard, D Richard - Computers, Environment and Urban Systems, 2001 - Elsevier
 ... Author Keywords: Graphical information systems; **Metadata**; **Database** evolution; Geometric ...



Scholar All articles - Recent articles Results 1 - 10 of about 943 for **metadata database heterogeneous**

Heterogeneous Database Integration in Biomedicine - all 5 versions »

W Sujansky - Journal of Biomedical Informatics, 2001 - Elsevier

... **heterogeneous database** systems. encoded in a variety of ways in relational databases, and these encodings entail differences in the use of data and **metadata**. ...

Cited by 65 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Landscaping the information space of large multi-database networks - all 10 versions »

MP Papazoglou, HA Proper, J Yang - Data & Knowledge Engineering, 2001 - Elsevier

... lies in transforming a federation of multiple semi-structured **heterogeneous** sources (which ... **Fig. 2. Meta-data** and descriptors for **database** schemas. ...

Cited by 28 - [Related Articles](#) - [Web Search](#)

Managing Scientific Metadata - all 10 versions »

MB Jones, C Berkley, J Bojilova, M Schildhauer - 2001 - doi.ieeeecs.org

... any field in which independent agencies collect **heterogeneous** data that ... it works with any SQL-compliant **database** system ... to support their data and **metadata** needs ...

Cited by 43 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

System for transforming and exchanging data between distributed heterogeneous computer systems - all 7 versions »

D Ellis, M Doyle - US Patent 6,195,662, 2001 - freepatentsonline.com

... system for transforming and exchanging data between **heterogeneous** distributed computing ... of the present invention that are defined within the **metadata database**. ...

Cited by 6 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Apparatus and method for transparent access of foreign databases in a heterogeneous database system - all 4 versions »

R Bodamer, J Draaijer, E Voss, R Mani - US Patent 6,226,649, 2001 - freepatentsonline.com

... includes an access to **metadata** in a structure supported by the foreign **database** system. 14. The system of claim 13, wherein the **heterogeneous** services modules ...

Cited by 10 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Apparatus and method for accessing foreign databases in a heterogeneous database system - all 4 versions »

R Bodamer, E Voss, J Draaijer - US Patent 6,236,997, 2001 - freepatentsonline.com

... these modules 210 in the **heterogeneous** services module ... to map a particular **database** operation to ... client statement and based upon **metadata** definitions **metadata** ...

Cited by 11 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Metadata Management for Data Warehousing: Between Vision and Reality - all 5 versions »

A Vaduva, KR Dittrich - ... of the International Database Engineering & Applications ..., 2001 - doi.ieeeecs.org

... Proceedings of the International Database Engineering and ... and notions related to **meta-data** management for data ... 4 approaches for future **metadata** management are ...

Cited by 27 - [Related Articles](#) - [Web Search](#)

On Heterogeneous Database Retrieval: A Cognitively Guided Approach - all 5 versions »

R Krishnan, X Li, D Steier, L Zhao - Information Systems Research, 2001 - INFORMS



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Heterogeneous Database Integration in Biomedicine - all 5 versions »

W Sujansky - Journal of Biomedical Informatics, 2001 - Elsevier

... large variety of relational **database** implementations and ... autonomously, they are highly **heterogeneous**, difficult to ... mappings stored in a "**metadata** file" to ...

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Landscaping the information space of large multi-database networks - all 10 versions »

MP Papazoglou, HA Proper, J Yang - Data & Knowledge Engineering, 2001 - Elsevier

... lies in transforming a federation of multiple semi-structured **heterogeneous** sources (which ... Fig. 2. **Meta-data** and descriptors for **database** schemas. ...

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Managing Scientific Metadata - all 10 versions »

MB Jones, C Berkley, J Bojilova, M Schildhauer - 2001 - doi.ieee.org

... Standard for Digital Geospatial **Metadata**, Federal Geographic ... B. Jones is the **database** and information ... and the integration of **heterogeneous** scientific data. ...

Cited by 43 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Data and Metadata Collections for Scientific Applications - all 4 versions »

A Rajasekar, R Moore - Proceedings of the 9th International Conference on High- ..., 2001 - Springer

... Data and **Metadata** Collections for Scientific Applications ... Data grids provide access to **heterogeneous** data re- sources ... access **objects** stored in a **database** or in ...

Cited by 40 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Object-oriented modeling of data sources as a tool for the integration of heterogeneous ... - all 5 versions »

H Gärtner, A Bergmann, J Schmidt - Computers and Geosciences, 2001 - Elsevier

... sources is difficult because of differing **metadata**. ... the integration of **heterogeneous** geoscientific data ... integration without establishing a central **database**. ...

Cited by 16 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

System for transforming and exchanging data between distributed heterogeneous computer systems - all 7 versions »

D Ellis, M Doyle - US Patent 6,195,662, 2001 - freepatentsonline.com

... definitions and to store them in a **metadata database**. It is another **object** of the present ... and exchanging datastore data between **heterogeneous** computer systems ...

Cited by 6 - [Related Articles](#) - [Cached](#) - [Web Search](#)

On Heterogeneous Database Retrieval: A Cognitively Guided Approach - all 5 versions »

R Krishnan, X Li, D Steier, L Zhao - Information Systems Research, 2001 - INFORMS

... Global Universal Relation: The InfoB **Metadata** Representation ... STEIER, AND ZHAO On **Heterogeneous Database Retrieval: A ...** Computing the maximal **object** in a global ...

Cited by 17 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Apparatus and method for accessing foreign databases in a heterogeneous database system - all 4 versions »

R Bodamer, E Voss, J Draaijer - US Patent 6,236,997, 2001 - freepatentsonline.com



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[\[book\]](#) **Information Brokering Across Heterogeneous Digital Data: A Metadata-based Approach**

V Kashyap, A Sheth - 2000 - [books.google.com](#)

... Sheth has been an innovator of **metadata**-based approaches to the integration of **heterogeneous** semantics for **database** systems and workflow ...

Cited by 42 - [Related Articles](#) - [Web Search](#)

Content-based retrieval of 3D models in distributed Web databases by visual shape information

- all 5 versions »

J Löffler - ..., 2000. [Proceedings. IEEE International Conference on, 2000 - \[ieeexplore.ieee.org\]\(#\)](#)

... that a text search is performed over the existing **meta**-data in the **database**. ... with large databases, an index for searching through the **metadata** is created ...

Cited by 32 - [Related Articles](#) - [Web Search](#)

Extending OLAP querying to external object databases - all 11 versions »

TB Pedersen, A Shoshani, J Gu, CS Jensen - [Proceedings of the ninth international conference on ..., 2000 - \[portal.acm.org\]\(#\)](#)

... In contrast, **object database** systems are built to handle such complexity, but do not support OLAP-type querying well. This paper ...

Cited by 28 - [Related Articles](#) - [Web Search](#)

[\[PDF\]](#) **environment aiming at semantic interoperability of heterogeneous digital library**

collections - all 3 versions »

LA Kalinichenko, DO Briukhov, NA Skvortsov, VN ... - [Proc. of the 2nd Russian Scientific Conf. on Digital ..., 2000 - \[synthesis.ipi.ac.ru\]\(#\)](#)

... of a collection (eg, **database** collection, knowl ... a collection data model and **metadata** into the ... forming their homogeneous local **meta**-data representations during ...

Cited by 17 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[\[PDF\]](#) **Adding Conflict Resolution Features to a Query Language for Database Federations** - all 9 versions »

KU Sattler, S Conrad, G Saake - [Australian Journal of Information Systems, 2000 - \[fusion.cs.uni-magdeburg.de\]\(#\)](#)

... enabling the interoperability of **heterogeneous** sources by ... for **object-relational database** federations. ... for defining federations, accessing **meta-data** in queries ...

Cited by 40 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[\[PDF\]](#) **Mapping Heterogeneous Ontologies through Object Views** - all 2 versions »

K Subieta - [Proc. 3-rd Workshop on Engineering Federated Information ..., 2000 - \[si.pjwstk.edu.pl\]\(#\)](#)

... resolving schematic discrepancies among **heterogeneous** databases [KLK91] requires access to **metadata** and reflection ... will be seen through **database** views, it ...

Cited by 8 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[\[PDF\]](#) **A Process-Oriented Approach for Representing Lineage Information of Spatial Data**

M Brändli - [3rd AGILE Conference on Geographic Information Science, ..., 2000 - \[agile-secretariat.org\]\(#\)](#)

... ESRI (1998): **Spatial Database Engine**. ... 1997): Content standard for digital geospatial **metadata** (revised April ... 1991): Design of a lineage-based **meta-data** base for ...

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[PDF] Transforming Heterogeneous Data with Database Middleware: Beyond Integration - all 9 versions »

LM Haas, RJ Miller, B Niswonger, MT Roth, PM ... - IEEE Data Engineering Bulletin, 1999 - dbs.informatik.uni-halle.de

... **Metadata** transformations that use higher order query ... The **Object Database** Standard – ODMG-93 ... Integration of **heterogeneous** databases without common domains ...

Cited by 150 - Related Articles - View as HTML - Web Search

[BOOK] Management of Heterogeneous and Autonomous Database Systems - all 3 versions »

AK Elmagarmid, M Rusinkiewicz, A Sheth - 1999 - books.google.com

... 1 Context and **Metadata** 74 3.4. ... Preface xv Chapter 8 on interdependent database systems, written ... consistency and interrelated data across **heterogeneous** databases ...

Cited by 152 - Related Articles - Web Search

Semantic heterogeneity resolution in federated databases by metadata implantation and stepwise ... - all 8 versions »

G Aslan, D McLeod - The VLDB Journal The International Journal on Very Large ..., 1999 - Springer
... implantation and semantic evolution employs **meta- data** implantation and ... importation: remote data and **metadata** should be ... are import- ed into the local **database**. ...

Cited by 49 - Related Articles - Web Search

Organization of Heterogeneous Scientific Data Using the EAV/CR Representation - all 9 versions »

PM Nadkarni, L Marengo, R Chen, E Skoufos, G ... - Journal of the American Medical Informatics Association, 1999 - j-amia.org

... proportion of EAV/CR **metadata** is Web ... relationships (represented through conventional **database** schemas) are ... Challenge of Managing Highly **Heterogeneous** Data As a ...

Cited by 79 - Related Articles - Web Search - BL Direct

[PDF] Metadata Jones and the Tower of Babel: The Challenge of Large-Scale Semantic Heterogeneity - all 3 versions »

S Madnick - Proceedings of the 1999 IEEE Meta-Data Conference, 1999 - computer.org

... values to facilitate interoperability among **heterogeneous** Information systems ... Open **Database** Connectivity of the Context Interchange System ... A **metadata** approach to ...

Cited by 57 - Related Articles - View as HTML - Web Search

... Database Project: Organizing Multidimensional Biological Images in an Object-Relational Database - all 8 versions »

JM Carazo, EHK Stelzer - Journal of Structural Biology, 1999 - Elsevier

... BIOIMAGE ORGANIZATION Biolmage is a **heterogeneous database** ... is imple- mented as a single **database** for all ... The **metadata** superset is very rich, but still ...

Cited by 27 - Related Articles - Web Search - BL Direct

[CITATION] Introduction

Z Ercegovac - Journal of the American Society for Information Science, 1999

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